



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
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MEMORANDUM

TO: Board of Oil, Gas and Mining

FROM: Thomas N. Tetting, Engineering Geologist

SUBJECT: S and S Mining Company
Red Rock Mine
ACT/037/050
San Juan County, Utah

DATE: December 1, 1983

The Division of Oil, Gas and Mining (DOGM) technical staff has reviewed the Mining and Reclamation Plan (MRP) submitted by S and S Mining Company for the Red Rock Mine. A determination that the MRP satisfies the requirements of the Utah Mined Land Reclamation Act of 1975 has been made. A final reclamation surety figure has also been estimated (\$15,000.00) with an escrow agreement set up. The Division currently holds a certificate of deposit as the form requested by the operator. Two stipulations will be attached to the conditional final approval which will require an additional submission of information within a 30-day time period. They are not of a consequence to hold up the permitting process longer and are attached for your information.

The 30-day public comment period was initiated in the first week of November and no adverse comments were received by DOGM.

An Executive Summary, surety estimate and location map are also attached for your review and information in reaching a decision regarding Board approval of the form and amount of surety.

TNT/btb

cc: Steve McNeal, State Health Department
J. Smith, DOGM
D. Wayne Hedberg, DOGM
T. Portle, DOGM
S. Linner, DOGM
P. Grubaugh-Littig, DOGM

Attachments

S and S Mining Company must provide information to satisfactorily address two attached stipulations within 30 days of receipt of this conditional approval. Should these stipulations not be met within the timeframe, the approval may be withdrawn.

Stipulation 1

The operator has provided no depth dimension for the proposed pond in the calculations submitted in the November 10 response letter. A volumetric assessment of the pond cannot be obtained from the surface area and the gallons per day (gal/yr) values provided.

It is the Division's recommendation that the pond be constructed with a minimum average depth of 3.5 feet.

This should allow sufficient storage volume to provide for:

1. State Health requirement for a minimum storage of 120 days mine water production (2 feet = 164 days storage at 3,600 gal/day).
2. A 0.5 foot sediment storage level
3. At least one (1) foot of freeboard. (The State Health Department may require that three feet of freeboard be maintained. Contact that agency for final approval on this point.)

This pond in combination with emergency use only of the two upper existing evaporation ponds should be adequate to contain all mine discharges at the rates projected.

A submission of material updating the MRP and addressing these final construction criteria must be made.

The updated map recently submitted should be revised again to include the location of the new evaporation pond and its projected connection with the emergency overflow pond.

Stipulation 2

The operator's proposal to utilize straw bales to control erosion from the topsoil stockpile is valid. However, the placement of the bales should not be directly in the ephemeral wash as indicated on the map unless there is no alternative location. Placement in the natural drainage will likely receive continual maintenance problems.

The proposed diversion ditch should be designed and sized to handle storm runoff from the contributing watershed area based upon at least a 10-year, 24-hour storm. This ditch is considered temporary and must be reclaimed upon cessation of mining operations. The natural drainage patterns must be restored.

A commitment to implementing these procedures must also be provided by the operator to satisfy this stipulation.